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5/17/03

PATENT APPLICATION

OUR FILE NO. 20010202.CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re App : Martin L. Anderson

S.N. : 09/880,532 : Art Unit 3674

Filed : June 13, 2001 : Examiner John Kreck

Title : Walk Behind Floor Stripping
Machine with Hydraulic Drive

Supplemental Declaration Under 37 C.F.R. 1.132

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I, Martin L. Anderson, declare and say as follows:

1. I am the inventor named on the above-captioned application.
2. For over thirty years I have been engaged in the design development, manufacture and sale of tools and machines used in the floor covering industry, and currently I serve as President and C.E.O. of National Carpet Equipment, Inc. located in Minneapolis, Minnesota.
3. I attended the University of Montana where I majored in business administration. I have also attended several trade schools, including Dunwoody Industrial Institute where I received training in machining, Hennepin Technical where I learned mechanical drafting and Wright Technical where I learned welding techniques.
4. I have been awarded sixteen U.S. Patents on inventions pertaining to the machines used in the floor covering industry. A listing thereof is attached as Exhibit 1.
5. Based upon my educational background and years of experience working directly in the floor covering industry and the design and development of new carpet installations and removal tools and machines, as reflected by the patents awarded to me, I respectfully suggest that I am a person having more than an ordinary level of skill in this art.

6. I have been advised that claims 1-22 of my above-captioned patent application have been rejected on the grounds that the invention defined thereby would have been obvious to persons of ordinary skill in the art at the time the invention was made from what is taught in my earlier U.S. Patent 5,162,809 (the Anderson '809 patent) in view of U.S. Patent 5,426,805 to Fisher (the Fisher '805 patent). Set forth below are facts that refute this contention.

7. There are numerous significant differences between what is fairly taught in the combination of references cited by the Patent Examiner and the subject matter being claimed, to-wit:

(a) The Anderson '809 patent does not disclose a self-propelled floor stripping machine. Hence, it does not disclose a drive axle and a pair of drive wheels affixed to the drive axle or a hydraulic pump driven by the same electric motor used to power the floor engaging cutting head nor the rest of the components of the hydraulic circuit recited in claim 1 of my application for driving a hydraulic motor coupled to a drive axle for driving a pair of ground engaging wheels.

(b) The Fischer '805 patent does not teach any type of floor stripping machine for removing adhesively bonded floor coverings. Hence, it does not disclose a floor engaging cutting head member. Further, it does not teach an electric motor for powering a floor engaging cutting head. Not having an electric motor, Fischer also does not disclose an arrangement where a single electric motor can be made to directly drive a floor engaging cutting head and hydraulically drive a pair of drive wheels. Instead, Fischer discloses an internal combustion engine as a prime mover for both the hydraulic pump/motor driving the wheels and the hydraulic pump/motor driving the sweeper brush.

(c) The Fisher patent does not disclose a hydraulic motor that is "at a location on the main body that is offset from the drive axle" as shown in Figure 2 of the above-captioned application. Instead, Fisher '805 teaches a direct drive having a hydraulic motor in line with the axles of the wheels being driven. This type of drive, if applied to floor stripping machines, would result in an inoperative device. A floor stripping machine requires that the drive axle be kept as close to the ground as practical for best engagement of the cutting head to the floor and to prevent the cutting head from riding up on top of the floor covering material to be removed. The radius of the hydraulic

motor capable of driving a relatively heavy floor stripping machine, if configured as a direct drive as in the Fisher patent, would mandate the use of inordinately large diameter drive wheels to assure adequate ground clearance. These larger diameter wheels will increase the speed of travel, and reduces the torque (power) available to plow up most floor coverings. Moreover, large diameter wheels necessarily raise the angle of attack of a cutting head with respect to the floor. By having the hydraulic drive motor "at a location offset from the drive axle" and by using a small diameter sprocket on the axle as in my design, I am able to use smaller wheels to thereby maintain a desired attack angle of the cutting head while preserving relatively high torque needed to sever and plow up adhesively bonded floor coverings.

(d) The through-axle design also necessarily increases the overall width dimension of the machine. My offset placement of the hydraulic motor allows a narrower profile, leading to a more maneuverable machine suitable for use in confined areas and one where the wheels fall within the blade path.

(e) Having the hydraulic motor located so as to be offset from and not a part of the wheel axle assembly also greatly simplifies and reduces the cost of maintenance. It is a simple matter to replace a worn out hydraulic motor in my design whereas in the Fisher '805 design one must tear down the entire axle assembly.

8. Taking into account the foregoing differences between the subject matter defined by claim 1 and what is fairly taught by the combination of references (Anderson '809 and Fischer '805) and my knowledge of the level of ordinary skill in the art in the floor stripping machine art, the invention, as a whole, would not have been obvious to such persons.

9. To bolster my opinion set forth in paragraph 8 hereof, I offer the following facts relating to the commercial success, long-felt need and the failure of others to meet this need:

(a) The commercialized version of the present invention is the National Carpet Equipment Models #5280 and #6280 Panther® self-propelled floor stripping machines. Attached as Exhibits 2 and 3 are brochures citing various design features and advantages flowing from the claimed combination. The principal difference between the Model #5280 and the Model #6280 is overall size and weight.

(b) The commercial version of the Anderson '809 patent is the National Carpet Equipment #500 Series floor stripping machine. Attached as Exhibit 4 is a brochure relating to the Model #505 floor stripping machine.

(c) Our first self-propelled, walk-behind floor stripping machine was sold as our Model #6250. It is described in U.S. Patent 6,135,566 and had a single electric motor mechanically coupled to both the floor contacting cutting head and to the drive wheels used to propel the machine by means of a gear box transmission.

(d) Sales of the Model #6250 began in late 1998 and this model is no longer being produced because of the commercial success of the Models #5280 and #6280 following their introduction to the market in the summer of 2001. Between late 1998 and August 2002, when sales of the #6250 ceased, only 275 units had been sold. In this period, the Company spent between \$40,000 and \$45,000 in direct advertising of the Model #6250.

(e) The company began selling its hydraulic Models #5280 and #6280 in about June 2001. From then to March 2003, the company has sold 413 units and has spent only about \$12,000 in direct advertising of these two models.

(f) Attached hereto as Exhibit 5 is page 2 from the Sinclair Equipment Company Catalog dated November 2002 advertising its "Turbo Stripper® self-propelled floor stripper. It is manufactured by Wolff GmbH in Germany and Sinclair is its U.S. distributor. To the best of my information and belief, Sinclair began selling this purely mechanical floor stripper in about 1994 and is now the only real competitor National Carpet Equipment has in the self-propelled, walk-behind floor stripping machine business. Because this is only a two-player market and from the time National Carpet first got into this business with its Model #6250 self-propelled Panther floor stripping machine in November 1998, it has taken away about \$3,500,000 in sales from Wolff and Sinclair. The Turbo Stripper and the Panther Model #6280 each sell for about \$7,200.00.

(g) As a result of the competition afford by our Model #5280 and #6280 machines, Sinclair has shifted its product mix so that it is now more heavily promoting its concrete floor grinding and shot blasting line of equipment, tacitly acknowledging that its Turbo Stripper is unable to compete with National Carpet's more versatile electric/hydraulic models, even when marketed at a lower price.

(h) Based upon the improved performance and less maintenance required on our Model #5280 and #6280 machines, a German Company, Janser GmbH, that had been a dealer for Wolff GmbH for its Turbo Stripper for several years, dropped that line in favor of National Carpet's Model #6280 and #5280 machines. In 2001, Janser GmbH took on National Carpet's line of floor strippers and, to date, has ordered 190 units from us, of which 182 have been shipped. Attached hereto as Exhibit 6 is a letter from Olaf Janser of Janser GmbH stating that the reasons for discontinuing the sale of the Wolff product in favor of National Carpet's product are performance related and its technical superiority. Even though Janser GmbH was able to purchase Wolff Turbo Stripper machines in Germany for a lower price than the competing National Carpet Model #5280 and #6280 machines imported from the United States, it recognized the superiority of the National Carpet products and has severed its relationship with Wolff GmbH that it had represented for over 25 years.

(i) Technical advances inherent in the claimed invention include, but may not be limited to, the use of the electric motor to directly drive the floor engaging cutting head and to drive a hydraulic pump powering the hydraulic motor used to drive the wheels and where the hydraulic motor is at a location offset from the drive axle of the machine. This permits instantaneous speed control not available in the Wolff Turbo Stripper machine. It also permits forward/reverse control not available in the Wolff Turbo Stripper. The #5280 and #6280 machines have the ability to operate from a 110 volt supply or a 220 volt supply and without excessive current draw so that frequent blowing of circuit breakers is avoided and the use of longer extension cords than can be used with the less efficient Wolff Turbo Stripper is permitted.

10. Just recently, another Sinclair customer for over six years, U.S. Filter, Inc. acting through its Surface Preparation Group (Exhibit 7) has come to National Carpet Equipment, Inc. and is projecting it will be ordering up to 150 Model #6280 Panther floor stripping machines per year to replace its rental fleet of Sinclair Turbo Strippers in six warehouses with 30 to 40 machines and will be selling an additional 110 machines. I have been advised that, on the average, U.S. Filter, Inc. has tested the National Carpet machines, side-by-side, with the Wolff Turbo Stripper purchased in the past from Sinclair and, based on lower maintenance costs, maneuverability and greater ease of use, has

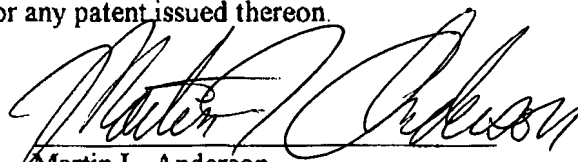
decided in favor of National Carpet. I have also been advised that the electro-mechanical Sinclair machines must be repaired and refurbished in 8 out of 10 rentals; whereas, National Carpet's electro hydraulic machines need repair only in 1 out of 10 rentals.

11. Given the fact that the only competitor in the industry (Wolff GmbH) and its U.S. distributor (Sinclair) did not recognize the significant performance advantages attainable by combining hydraulic wheel drive with electric motor cutting head drive, I conclude that my invention, as claimed, was not obvious to other workers in the field.

12. As a person of more than ordinary skill in the floor stripping machine art, I can also state that the invention of the above-captioned invention was not obvious to me. Had it been obvious, I would not have had National Carpet Equipment spend in excess of \$30,000 to design and develop the Model #6250 machine described in my earlier Patent 6,135,566 only to have it become obsolete by my later hydraulic drive Model #5280 and #6280 machines, which, as stated earlier, are the subject of the above-captioned application.

13. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful and false statements may jeopardize the validity of this application or any patent issued thereon.

Dated: 5/6/, 2003.


Martin L. Anderson



















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Searching 1976 to present...

Results of Search in 1976 to present db for:**IN/"Anderson, Martin L": 18 patents.****Hits 1 through 18 out of 18**[Jump To](#)[Refine Search](#)

IN/"Anderson, Martin L"

PAT. NO. Title

- 1 [6,421,924](#)  [Cushion back carpet cutting tool](#)
- 2 [6,230,410](#)  [Wall trimmer for carpet and vinyl floor coverings](#)
- 3 [6,135,566](#)  [Self-propelled floor stripper](#)
- 4 [5,209,171](#)  [Carpet edge binding machine](#)
- 5 [5,190,328](#)  [Carpet stretching tool](#)
- 6 [5,025,970](#)  [Protective sleeve for carpet tacking gun](#)
- 7 [4,970,790](#)  [Bas-relief carving plate assembly](#)
- 8 [4,970,754](#)  [Carpet tack strip with urethane base](#)
- 9 [4,963,224](#)  [Motorized carpet and tile stripping tool](#)
- 10 [4,748,743](#)  [Utility knife with improved blade locking feature](#)
- 11 [4,683,657](#)  [Cutting blade for carpet removing machines](#)
- 12 [4,626,033](#)  [Carpet and tile stripper with controllable vector](#)
- 13 [4,605,253](#)  [Carpet seam roller](#)
- 14 [4,584,040](#)  [Carpet seaming apparatus](#)
- 15 [4,529,238](#)  [Carpet handling tool](#)
- 16 [4,446,593](#)  [Carpet steaming tool](#)
- 17 ~~[4,249,312](#)  [Lead chopper](#)~~
- 18 ~~[4,222,296](#)  [Lead chopper](#)~~

[Top](#)[View Cart](#)[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)**EXHIBIT**

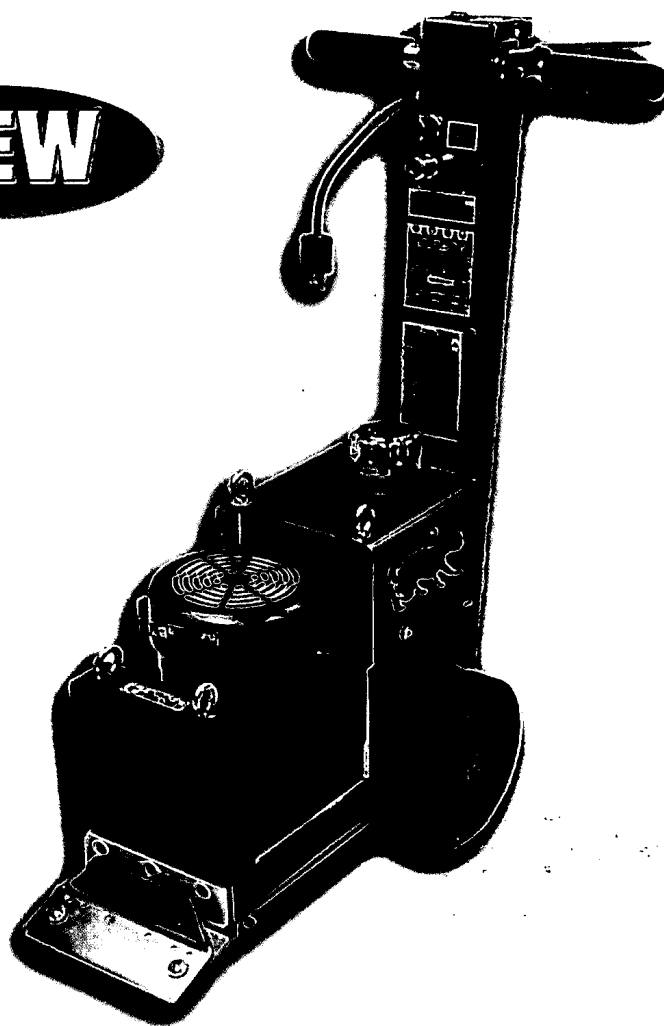
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#5280

Panther® Self-Propelled floor stripping machine

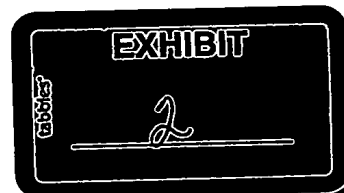
This Self-Propelled Stripper will remove the worst of today's glued down floors, commercial carpet, gummy adhesives, VCT, solid vinyl, radial rubber-tile, sheet rubber, indoor and outdoor sport surfaces, roofing material and much much more.....

NEW



TOTALLY Self Propelled

Made in the USA
Patent No. 6,135,566
Other patents pending

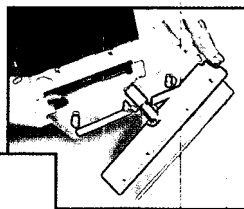


National
Carpet Equipment, Inc.

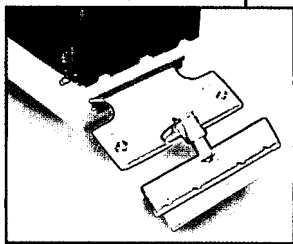
6801 Winnetka Avenue N • Minneapolis, MN 55428 USA
800-245-0267 • 763-535-8206 • Fax 763-535-8255 • Fax 800-648-7124
Web Site: www.nationalequipment.com • E-Mail: info@nationalequipment.com

- Self-Propelled
- Variable Speed 12-50 ft. per minute
- Instant forward
- Whisper quiet, overload protected commercial motor
- Runs under ten amps under load
- Easy to operate hand controlled clutch for speed and safety
- Cleans floors better than any other machine its size
- Runs quietly, can be operated on any jobsite
- Wheels disengage for easy transportation
- Durable, steel plate stock outer housing
- Variety of blade sizes available
- Standard 110 volt #5280
Optional 220 volt #5280-W

Swivel head allows blade to stay in contact with the floor



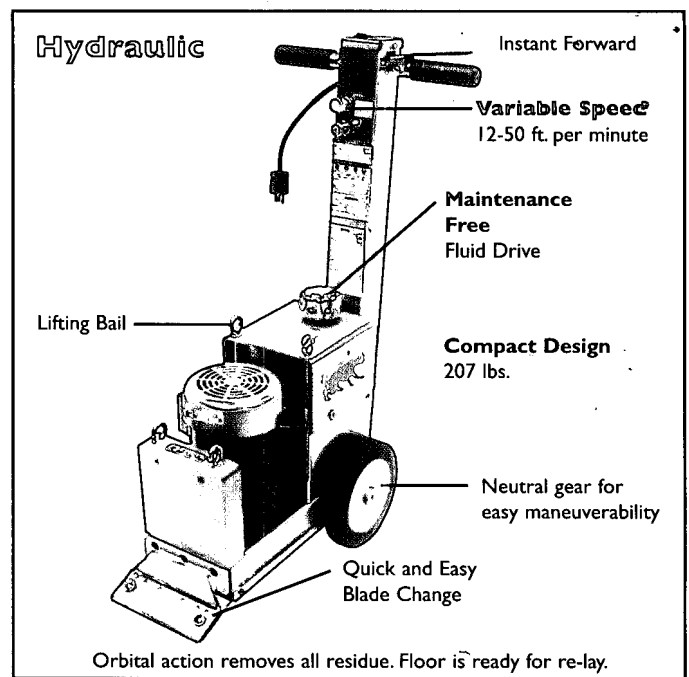
#5280-500



Unique Swivel Head Attachment rotates to use the second sharp edge on the blade without having to remove the blade

- Designed to hold razor/scrapper blades
- Works on thin soft coatings, paint, hard to remove gummy or dry adhesive • Is the ultimate for adhesive removal

Standard Features

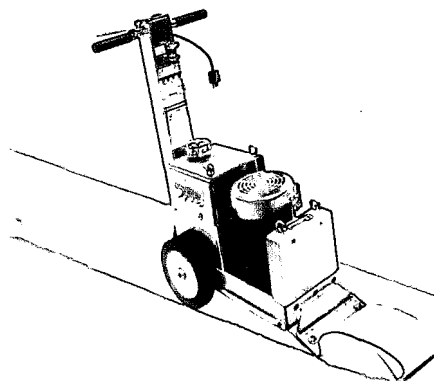


Accessory package includes

- #6255-BU 4 x 6 Self Scoring Blade
- #7050-202 3 x 10 Premium Blade
- #147 4 x 6 Blade
- #148 5 x 6 Blade
- Quick detach 50 lb. rear counterweight
- Tools & Eye Protector
- Instruction Manual & Training Video

Optional Accessories

- #6254 50' Power Cord
- #5280-401 Additional Front Counterweight
- #5280-500 Swivel Head Attachment



#6280

Industrial Panther® Self-Propelled

floor stripping machine

This Self-Propelled Stripper will remove the worst of today's glued down floors, commercial carpet, gummy adhesives, VCT, solid vinyl, radial rubber-tile, sheet rubber, indoor and outdoor sport surfaces, roofing material and much much more.....

TOTALLY Self Propelled



PROVEN INDUSTRIAL
LEADER



Made in the USA
Patent No. 6,135,566
Other patents pending



National

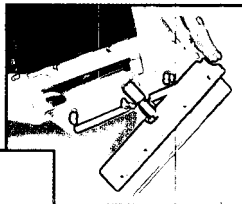
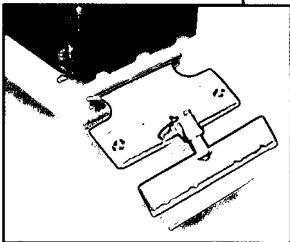
Carpet Equipment, Inc.

6801 Winnetka Avenue N • Minneapolis, MN 55428 USA
800-245-0267 • 763-535-8206 • Fax 763-535-8255 • Fax 800-648-7124
Web Site: www.nationalequipment.com • E-Mail: info@nationalequipment.com



- Totally self-propelled
- Variable speed 10-45 ft. per minute
- Instant forward/reverse
- Quiet, high torque capacitor start overload protected commercial motor
- Runs under 13 amps, won't blow circuit breaker
- Easy to operate hand controlled clutch for speed and safety
- Cleans floors better than any other machine on the market
- Specially designed high traction wheels with wheel cleaners
- Wheels disengage for easy transportation
- Variety of blade sizes available
- Three quick removable counterweights
- Runs quietly, can be operated on any jobsite
- Wheels disengage for easy transportation
- Durable, 1/4" thick plate stock outer housing
- Standard 110 volt #6280
Optional 220 volt #6280-W

Swivel head
allows blade to
stay in contact
with the floor



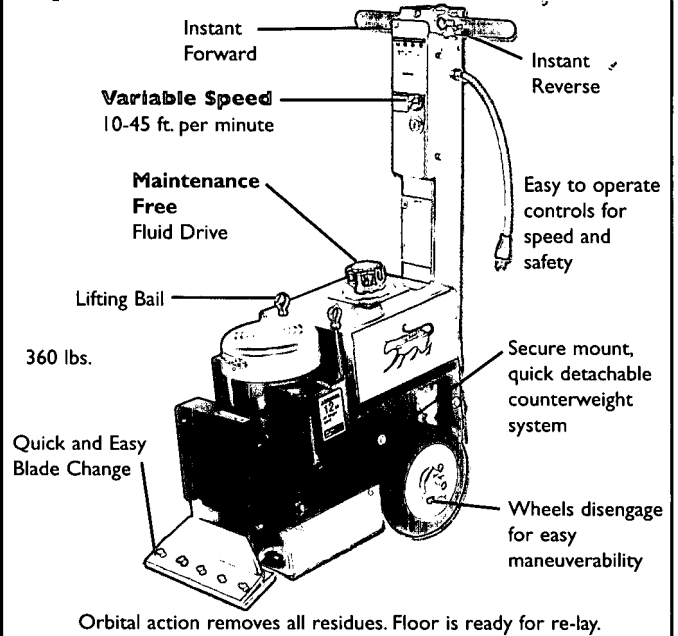
#6280-500

Unique Swivel Head Attachment rotates to use the second sharp edge on the blade without having to remove the blade

- Designed to hold razor/scrapper blades
- Works on thin soft coatings, paint, hard to remove gummy or dry adhesive
- Is the ultimate for adhesive removal

Standard Features

Hydraulic

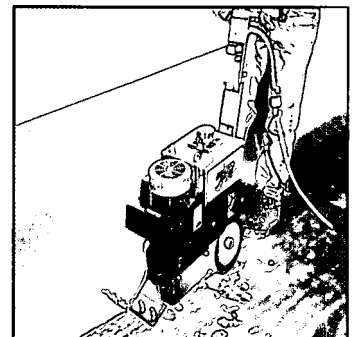
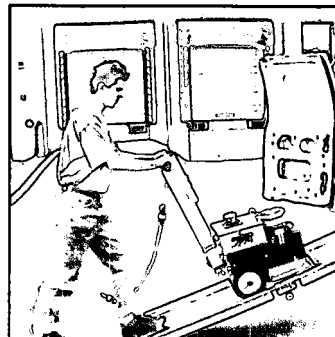


Accessory package includes

- #7050-200 3 x 6 Self Premium Blade
- #7050-202 3 x 10 Premium Blade
- #148 5 x 6 Blade
- #6258-BU 3 x 12 Self Scoring Blade
- #6280-301 Front Wheel Assembly
- Tools & Eye Protector
- Instruction Manual & Training Video

Optional Accessories

- #6251 Loading Ramp
- #6254 50' Power Cord
- #6280-146A Additional Front Weight
- #5280-500 Swivel Head Attachment



Removes
virtually any
substance adhered
to the floor

Plastic Floor
Coverings

Foam

Plastic
Droppings

Parquet
Flooring

Epoxy Flooring

Chewing Gum

Indoor/Outdoor
Felt

Roofing

Linoleum

Ice

Rubber Backed
Carpet

Adhesives

Glued Down
Carpet

Asphalt Tile

Accumulated
Grime

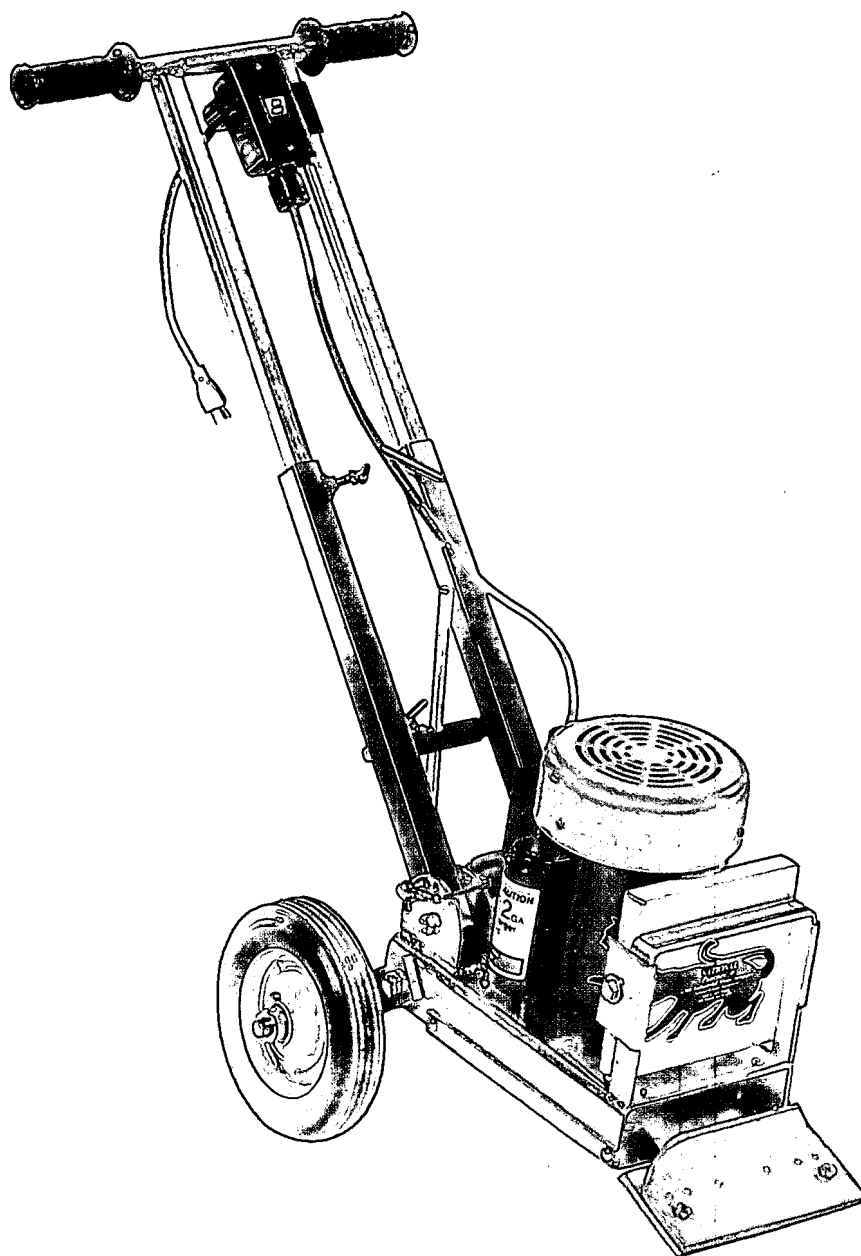
Paint from
Floors

Rubber and
Vinyl Tile

Tire Marks

#505

PANTHER® "+" PLUS ORBITAL FLOOR STRIPPING MACHINE



National
Carpet Equipment, Inc.

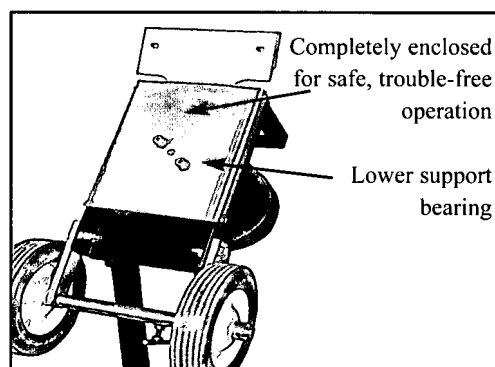
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tabbies

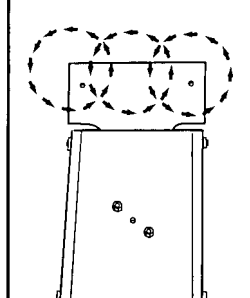
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PANTHER® "+" PLUS ORBITAL FLOOR STRIPPING MACHINE

- Works over wood or concrete type surfaces and will remove virtually any substance adhered to the floor
- Works on any type of subfloor
- Unique head angle won't gouge floor surface
- Unique direct drive ensures maintenance free operation
- Quietest machine on the market (runs whisper quiet)
- Powerful, industrial, continuous duty, 1 HP, 1725 RPM motor (runs under 10 amps)
- Exclusive handle and wheel adjustment system makes the Panther® Plus the most versatile, user friendly stripper in the industry
- Won't cause operator fatigue from fighting centrifugal pull like other oscillating machines
- Uses any conventional or self scoring stripper blades
- Removable handle and front weight makes machine very portable (fits in the trunk of a car)
- Because of the unique design this machine at 82 lbs. will out perform other machines at twice the weight
- Patent No. 4,963,224 — Warranty - 1 year against manufacturer defects



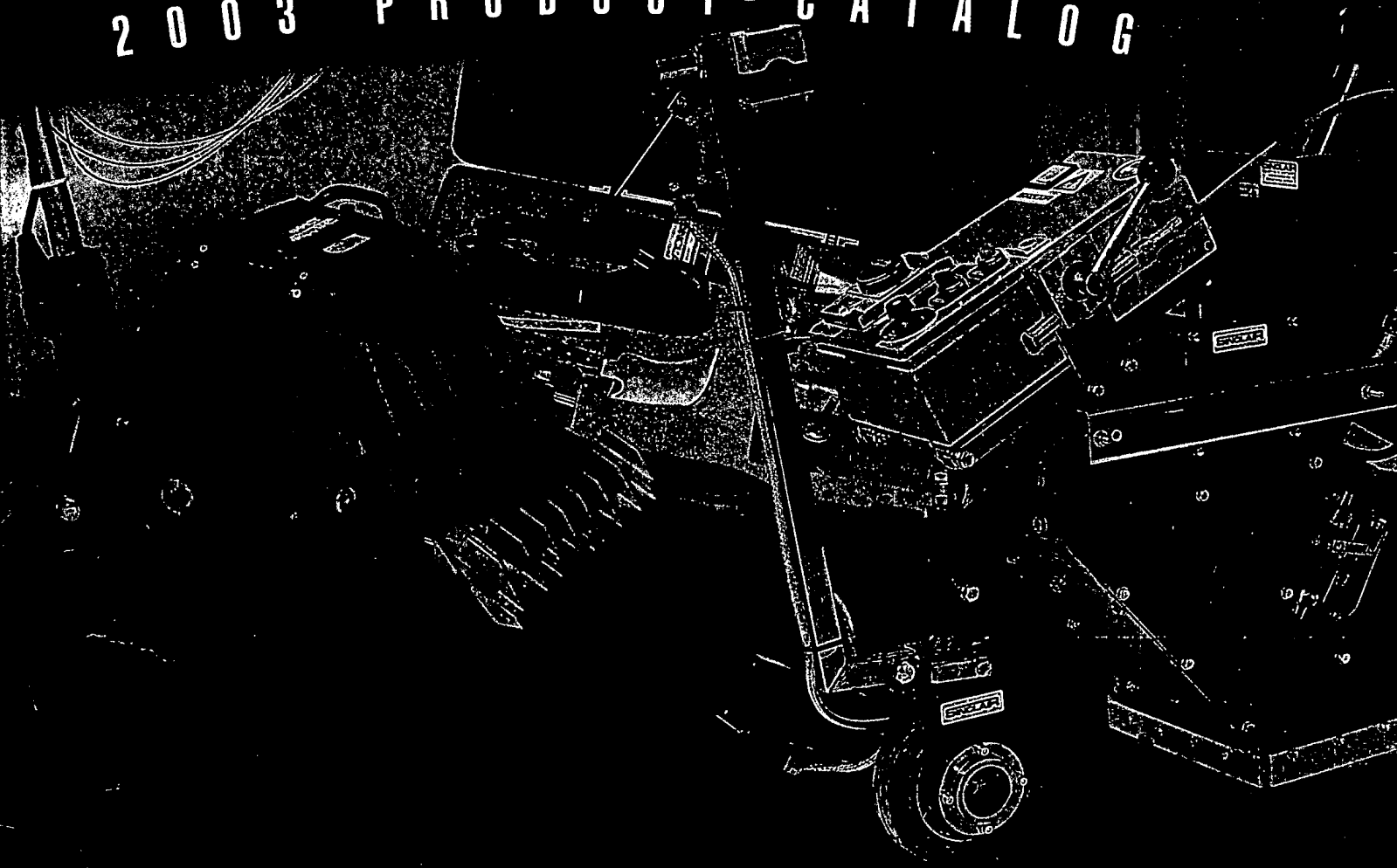
Random orbital action



National
Carpet Equipment, Inc.

6801 Winnetka Avenue North • Minneapolis, MN 55428 U.S.A.
763-535-8206 • 800-245-0267 • Fax 763-535-8255 • Fax 800-648-7124
Web Site: www.nationalequipment.com • E-Mail: info@nationalequipment.com

2003 PRODUCT CATALOG



SINCLAIR
equipment company

Strippers

Turbo Stripper® "First in its class and still the best"

#10-4805

120 volt - 2400 watt - 20 amps - 310 lbs.

The Turbo Stripper® has come to be known as the most powerful self-propelled floor stripper available in its class. The Turbo is designed to remove the most difficult floor coverings on the market today, including commercial carpet, vinyl, tile, rubber goods, sport surfaces and removes glue residue. The exclusive hand operated clutch and unequaled traction makes the Turbo Stripper® easy to maneuver. We feature specialty blades for the Turbo Stripper® including self-dicing to eliminate precutting your own strips and a tile blade to protect the stripper blade jaw.

Features: Self-propelled, hand operated clutch, power overload protection, removable weights, adjustable handle, 14" width blade jaw with 5,000 strokes per minute ram action. Includes 2 blades, tools, eye protection and 30' power cord.

Blade Selection: Flat; rigid 6", 8", 12", 14"; 12" tile blade; 14" self-dicing blade and 14" x 5" ceramic/parquet

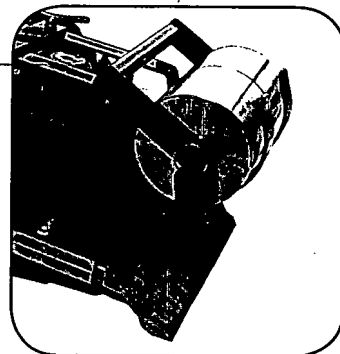


Turbo Weight Cradle™ - "A must for tile removal"

#10-4810

A 75 lb. weight with cradle has been introduced for use with the Sinclair Turbo Stripper®. This system provides additional weight centered directly over the blade for use during more difficult floor covering removal applications, such as VAT/VCT, wood, rubber, ceramics, etc.. Components include Weight Cradle, 75 lb. weight assembly with handle and hardware.

Cradle Only: #T025712001, Weight w/Handle Only: #T025712002



Super Stripper™

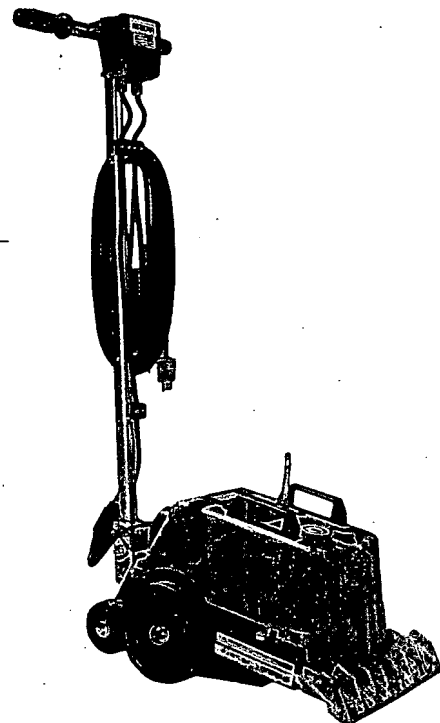
#10-4700

120 volt - 2400 watt - 20 amps - 220 lbs.

The Super Stripper™ is our self-propelled no nonsense production machine. The Super Stripper™ provides heavy weight, forward drive motion and ram action blade movement to remove the toughest of floorcoverings including commercial carpet, vinyl, VAT/VCT. Drive and blade action is on and off at switch. A proven achiever.

Features: Adjustable handle, removable weights for easy load and unload, 5,000 strokes per minute, 12" blade width. Includes 2 blades, tools, eye protection.

Blade Selection: Flat; rigid 6", 8" and 12"; 12" self-dicing; 12" tile blade





Maschinen, Geräte, Fachwerkzeuge für Raumausstatter
Fußbodenleger und den Fußbodenbelagshandel

Janser GmbH • Postfach 1163 • D-71135 Ehningen

NATIONAL CARPET EQUIPMENT Inc.
6801 Winnetka Ave. N.
Minneapolis MN 55428
USA

Büro – und Böblinger Straße 91
Verkaufsraum D-71139 Ehningen
Telefon (07034) 127 - 0
Telefax (07034) 8838
Internet <http://www.janser.com>
zuständig Herr Olaf Janser

☎ - Durchwahl (07034) 127 - 132
Fax - Anschluß (07034) 127 - 232
E-mail Olaf.Janser@janser.com

Freitag, 18. April 2003

Self-Propelled Flooring Removal Machines

To whom it may belong,

After selling different type of walk-behind flooring removal machines the company Max Janser has started in 1977 to launch a self-propelled walk-behind flooring removal machine called "SUPER-STRIPPER" which was manufactured by the company Wolff /Germany.

Through its sales-organisation with agencies and subsidiaries in Europe JANSER has then been able to sell during the following 24 years also the next generations of these machines, - the TURBO-Stripper and the VARIO Stripper in quantities of 40 - 80 machines per year.

In 2001 JANSER has contacted NATIONAL, since NATIONAL did have a self-propelled walk-behind machine which had technical advantages. The National machines have better performance, less maintenance, and a low noise level. The low noise level enables our customers to work in commercial job-sites where it has not been possible before, since other machines were too loud. (i.e. offices, hospitals, hotels)

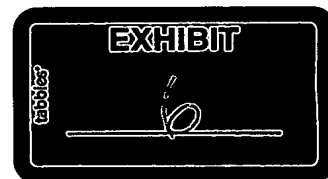
The machine has been received well in the market place. Since we have taken it on, we have achieved better sales results.

Best Regards

JANSER GmbH

Olaf Janser

General Manager





Machines for the removal of floor coverings

STRATO-MOBIL hydraulic

Hydraulic- Technology applied to the well known features of self-propelled tear-out machinery

Compared with other Strippers the STRATO MOBIL Hydraulic works extremely quietly, allowing use in „working“ environments.

Very easy operation achieved through automatic drive with forward and reverse function

Removeable weights for easier transport

Virtually maintenance-free hydraulic-components

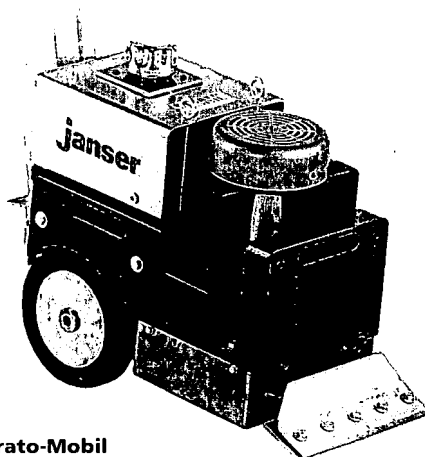
Technical Specifications

Power Supply	230V or 120V
Motor Power	1,1 kW (1½HP)
Voltage	8 Amp or 13 Amp
Weight	113 kg (249,12 lbs)
Addit.Weight - front	20 kg (44,09 lbs)
Addit.Weight - side	18 kg (39,68 lbs)



complete with 4 different spare blades, extension cable and tool kit

230 V	111 700 000
120 V	111 700 500



Patent Pending

Spare Blades for Strato-Mobil

Blade #101: self scoring blade for soft floors e.g. linoleum, PVC, rubber, carpet

305x76x1,6 mm (12x3x0.062")	
Order-No.	111 700 101

Blade #102: small for hard to remove surfaces e.g. epoxy, parquet, tough coatings

152x127x1,6 mm (6x5x0.062")	
Order-No.	111 700 102

Blade #103: can be used for almost every floor e.g. rubber, PVC, carpet, linoleum, cork, foam

254x76x1,6 mm (10x3x0.062")	
Order-No.	111 700 103

Blade #104: can be used for almost every floor e.g. rubber, PVC, carpet, linoleum, cork, foam

254x76x3,0 mm (10x3x1/8")	
Order-No.	111 700 104

Spare Blades for VARIO-STRIPPER working width 210 mm (8¼")

for PVC, Lino and CV-Coverings
length 60 mm (2 2/3")
thickness 1 mm (0.04")

Order-No.	111 080 001
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for removal of textile coverings
length 60 mm (2 2/3")
thickness 0,7 mm (0.03")

Order-No.	111 550 002
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for soft coverings
length 130 mm (5")
thickness 1 mm (0.04")

Order-No.	111 080 002
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for hard to remove coverings
length 60 mm (2 2/3")
thickness 1,5 mm (0.06")

Order-No.	111 550 001
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MASTER-MOBIL hydraulic

This totally self-propelled machine does have the same hydraulic technology combined with the variable speed and the quiet operation.

The lower weight makes the MASTER-MOBIL the perfect solution for medium size projects.

Technical Specifications

Power Supply	230V or 120 V
Motor Power	0,75 kW (1HP)
Weight	
incl. front weight	90 kg (200 lbs)
Addit.Weight - front	12 kg (26 lbs)
Addit.Weight - per side	12 kg (26 lbs)

complete with front weight, 4 different blades, extension cable and tool kit

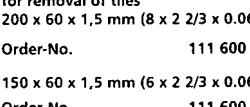
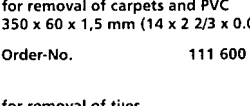
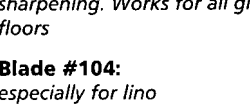
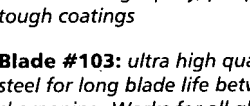
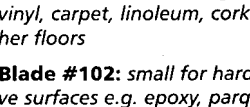
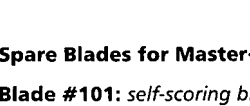
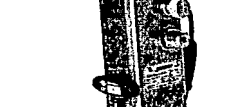
230 V	111 800 000
120 V	111 800 500

Additional side weight (1pcs)

Order-No.	111 700 050
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Support for 2 side weights

Order-No.	111 800 400
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Patent Pending

Spare Blades for Master-Mobil

Blade #101: self-scoring blade for vinyl, carpet, linoleum, cork and other floors

152 x 102 x 1,6 mm (6 x 4 x 0.062")	
Order-No.	111 800 101

Blade #102: small for hard to remove surfaces e.g. epoxy, parquet, tough coatings

152x127x1,6 mm (6x5x0.062")	
Order-No.	111 700 102

Blade #103: ultra high quality spring steel for long blade life between sharpening. Works for all glued down floors

254 x 76 x 1,6 mm (10 x 3 x 0.062")	
Order-No.	111 800 103

Blade #104: especially for lino

152 x 102 x 1,6 mm (6 x 4 x 0.062")	
Order-No.	111 800 104

Spare Blades for TURBO-MOBIL working width up to 350 mm (14")

for removal of carpets and PVC
350 x 60 x 1,5 mm (14 x 2 2/3 x 0.06")

Order-No.	111 600 001
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for removal of CV-floors and flex tiles on uneven subfloors
350 x 60 x 1,0 mm (14 x 2 2/3 x 0.04")

Order-No.	111 600 003
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for removal of tiles
200 x 60 x 1,5 mm (8 x 2 2/3 x 0.06")

Order-No.	111 600 002
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for removal of PVC and carpet from soft subfloors
350 x 120 x 1,5 mm (14 x 4 3/4 x 0.06")

Order-No.	111 600 009
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150 x 60 x 1,5 mm (6 x 2 2/3 x 0.06")	
Order-No.	111 600 004

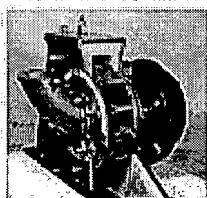
Providing the Total solution for Surface Preparation

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USF Surface Preparation Group offers one-stop shopping for products, systems, service and technology, with a commitment to quality and customer satisfaction.

The company's growth-by-acquisition strategy has brought several of the biggest brands in the industry to the group.

USF Surface Preparation Group employs over 2,000 people with manufacturing & distribution facilities located worldwide.



USF Surface Preparation Group (USFSPG) results from the merger of the world's best-known and trusted brand names in the surface preparation industry. USFSPG's respected brands give the company more than 600 years of combined experience in surface preparation techniques.

USFSPG began with the U.S. Filter purchase of industry leader, Wheelabrator, in December 1996. As more companies were acquired by US Filter, the company was renamed USF Surface Preparation Group. USFSPG now includes several of the largest and most trusted surface treatment brands, including Abrasive Developments, Abrasive Materials, BCP, BCT, Bioblast, Blastrac, Bruck, Castalloy, EBE, Gutmann, Impact Finishers, MPF Engineered Filters, OLT, Pangborn Europe, Sawtec, Schlick, Schmidt, Vacu-Blast, VL Industries, Walther Trowal, Wheelabrator, Wheelabrator Berger, Wheelabrator Sisson Lehmann, and Wheelabrator Tilghman.



As the largest surface preparation company in the industry, USFSPG brings the highest level of expertise and the best possible resources to even the most demanding applications. Using the technology of our leading manufacturers and worldwide network of distribution centers, we are committed to providing custom with the best solution for their specific requirement. This breadth and depth of the USF Surface Preparation Group's lines of product and services allows customer unique one-stop shopping experience.



USFSPG has assembled trusted and established brands in virtually every sector of surface preparation allowing the company to offer an unparalleled and superior product line. Using the technology of the group, USFSPG manufactures and distributes a wide range of standard and custom equipment, parts and services for all areas of surface preparation. We offer a network of solutions for surface cleaning, finishing, deburring, polishing, descaling, peening and dust collection. In addition, USFSPG operates two full service foundries - the Wheelabrator Foundry in Walterboro, SC and the Castalloy Foundry in Waukegan, WI. Each produces superior castings for the surface preparation and other industries.

USF Surface Preparation Group, a division of USFilter, is the global leader in providing surface preparation equipment, supplies and services. Strategically located manufacturing and distribution facilities allow USF Surface Preparation



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